

Use Case Specification

1 Introduction

1.1 Use-Case Name

Describe the name of the use-case.

1.2 Brief Description

Provide a brief description of the use-case.

2 Actors

The primary actor involved in the use-cases is the **teacher**.

3 Use Cases

3.1 Registration

3.1.1 Preconditions

Describe any preconditions that must be met before the use-case can be executed.

3.1.2 Main Flow

1. The teacher enters the initial interface of the system.
2. The teacher selects the "Register" option.
3. The system displays the registration form.
4. While the teacher has not submitted the form:
 - 4.1 If "close" is selected, the system returns to the initial interface.
 - 4.2 If "submit" is selected, the system validates the form.
 - 4.2.1 If the form is invalid, the system displays an error message.
 - 4.2.2 If the form is valid, the system registers the teacher and displays a success message.

3.1.3 Alternative Flows

Describe any alternative flows or exceptions in the use-case.

3.1.4 Postconditions

Describe the postconditions that will be true after the use-case has been executed.

3.1.5 Special Requirements

List any special requirements or constraints related to the use-case.

3.2 Question Bank Management

3.2.1 Preconditions

Describe any preconditions that must be met before the use-case can be executed.

3.2.2 Main Flow

1. User enters the initial interface of the system.
2. User inputs the correct username and password.
3. User selects the "login" option.
4. The system displays the main interface.
5. User selects the "Question Bank" option.
6. The system displays the question bank interface.
7. While the user has not selected the "close" option:
 - 7.1 If the user selects the "Question:" form, the system allows it to input a question for filtering.
 - 7.2 If the user selects "Type:" button, the system allows it to select a list of question types.
 - 7.3 If the user selects "Score:" form the system allows it to input a score for filtering.
 - 7.4 If the user click the "Reset" button, the system resets the filters and displays all questions.
 - 7.5 If the user selects "Filter" button, the system filters the questions based on the selected filters.
 - 7.6 If the user select a question from the list, the system displays the question details.
 - 7.7 If the user selects the "Add" button, the system displays the form for adding a new question.
 - 7.7.1 If the user selects the "Submit" button, the system validates the form.
 - 7.8 If the user selects the "Update" button, the system displays the form for updating the selected question.
 - 7.8.1 If the user selects the "Submit" button, the system validates the form.
 - 7.9 If the user selects the "Delete" button, the system deletes the selected question.

3.2.3 Alternative Flows

Describe any alternative flows or exceptions in the use-case.

3.2.4 Postconditions

Describe the postconditions that will be true after the use-case has been executed.

3.2.5 Special Requirements

List any special requirements or constraints related to the use-case.

3.3 Exam Management

3.3.1 Preconditions

Describe any preconditions that must be met before the use-case can be executed.

3.3.2 Main Flow

1. User enters the initial interface of the system.
2. User inputs the correct username and password.
3. User selects the "login" option.
4. The system displays the main interface.
5. User selects the "Exam" option.
6. The system displays the exam interface.
 - 6.1 The system displays a list of exams.
 - 6.2 The system displays a list of all existing questions.
 - 6.2 The system displays a list of questions chosen.
7. While the user has not selected the "close" option:
 - 7.1

3.3.3 Alternative Flows

Describe any alternative flows or exceptions in the use-case.

3.3.4 Postconditions

Describe the postconditions that will be true after the use-case has been executed.

3.3.5 Special Requirements

List any special requirements or constraints related to the use-case.

3.4 Grade Statistics

3.4.1 Preconditions

Describe any preconditions that must be met before the use-case can be executed.

3.4.2 Main Flow

Outline the main flow of events in the use-case.

3.4.3 Alternative Flows

Describe any alternative flows or exceptions in the use-case.

3.4.4 Postconditions

Describe the postconditions that will be true after the use-case has been executed.

3.4.5 Special Requirements

List any special requirements or constraints related to the use-case.